Defense Travel System

DTS and Digital Signature

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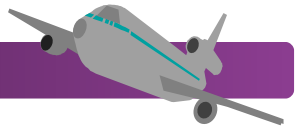
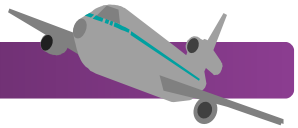
Outline



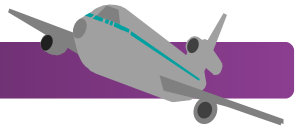
- Digital Signature
- GAO Requirements
- DTS and Digital Signature
- Defense Travel System
- DTS Use of Digital Signatures
- DTA and PKI
- PKI Components

Outline (Cont.)



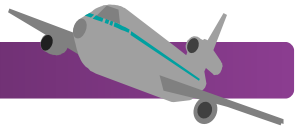
- LRA Responsibilities
- LRA Operations and Training
- LRA Workstations
- User Registration Priority
- User Responsibilities
- The Way Ahead
- System Administration

Digital Signature



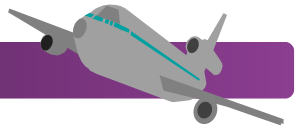
- **Provides confidence in electronic transactions**
  - **Apparent sender is actual sender Identification & Non-repudiation**
  - **Data has not been modified Data Integrity**

GAO Requirements



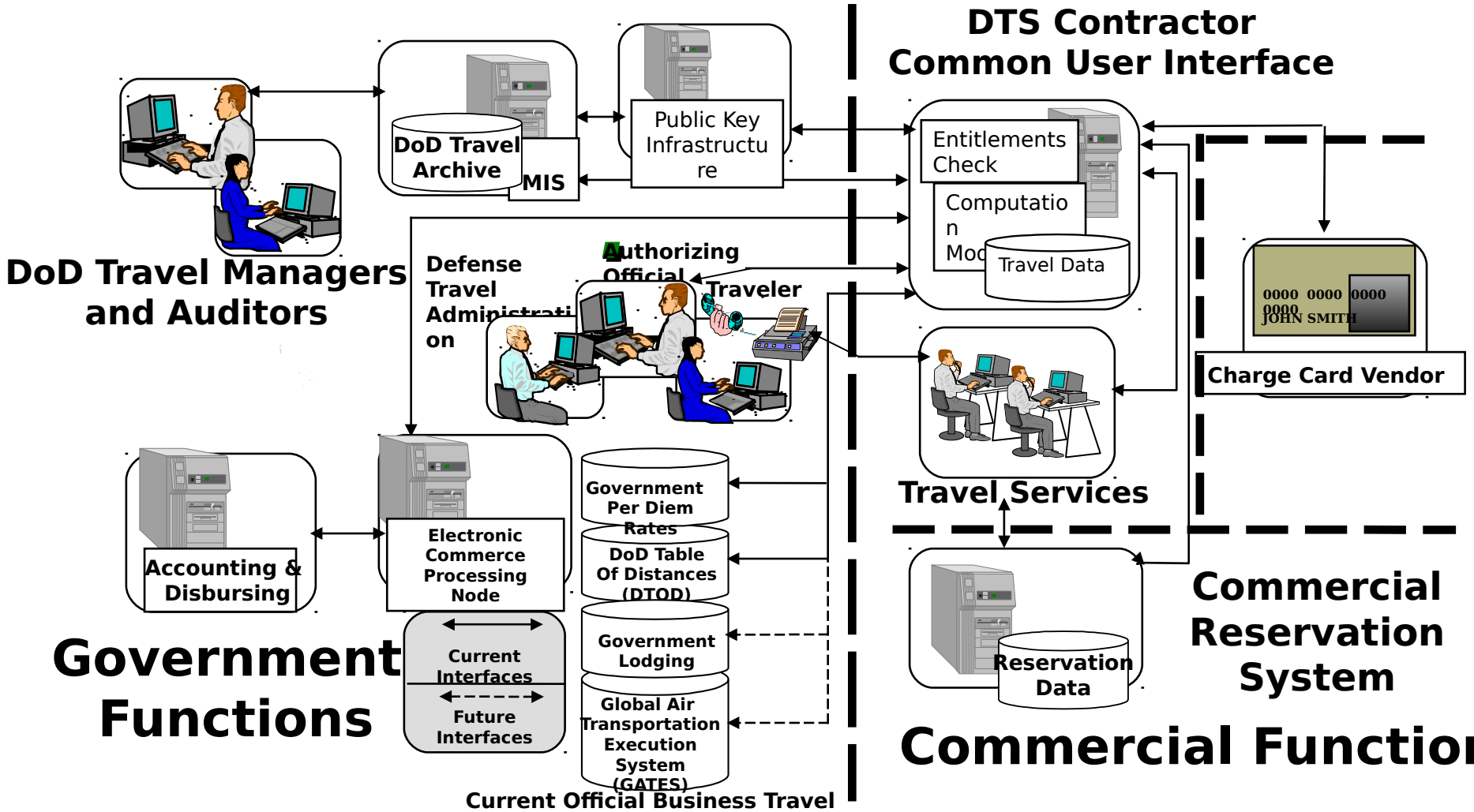
- **Protect disbursing officers from pecuniary liability**
- **Mandated requirements**
  - **Unique to the signer**
  - **Under the signer's sole control**
  - **Capable of being verified**
  - **Linked to the data**

DTS and Digital Signature

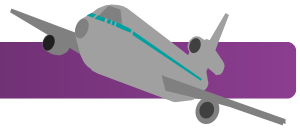


- DoD PKI (DISA)
- Medium assurance PKI
- Sensitive but unclassified information
- Identification certificates only
- DTR 6 - first large-scale implementation
- Approximately 3 million potential users

Defense Travel System

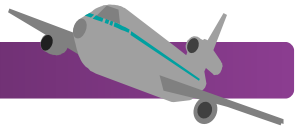


DTS Use of Digital Signatures



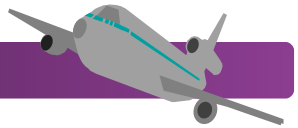
- **CUI access (Identification & Authentication)**
- **Travel Services Software - forwards trip request to AO for approval**
- **Legal Document Signatures**
  - **Authorizing Official (AO) authorizes travel (Travel Order)**
  - **Traveler files travel expenses (Expense Voucher)**
  - **AO approves claim payment (Certified Voucher)**

Public Key Infrastructure (PKI) Components



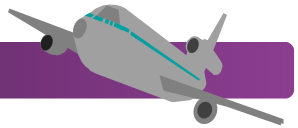
- **Certificate Authority (CA): DISA**
  - **Certificate server that creates and signs certificates**
- **Registration Authority: S/As**
  - **Manages Local Registration Authority**
  - **Revocation Authority**
- **Local Registration Authority (LRA): Site**
  - **Registers user with the CA**
  - **Provides User ID & one-time password to users**
- **Traveler's Key Storage: Diskette User**

DTA and PKI



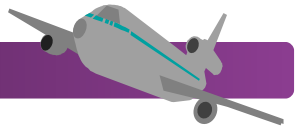
- **Site DTA - Human Resources, Information Assurance, or Security personnel**
- **Establish site "Trust" environment to control data from DTA to LRA**
  - **Verify candidates for digital signatures**
  - **Create list (or data file) of personnel data**
  - **Ensure that list/file is approved prior to sending it to LRA**
- **Provide approved list (or data file) to LRA**

DTA and PKI (Cont.)



- **Required data for digital signature certificate**
  - **Last name**
  - **First name**
  - **Middle name**
  - **Generation (e.g. Senior, Junior, etc.)**
  - **Email address (optional)**
  - **Organization (e.g. Mil. - Service; Civ. - Agency)**
  - **City**
  - **State**

LRA Responsibilities



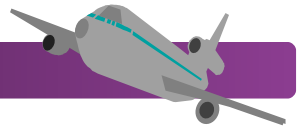
- **Register as LRA with Certificate Authority (CA) and the Registration Authority (RA)**
- **Provide CA with list of authorized users**
- **Provide users with unique ID and one-time computer-generated password**
  - **Store PKI certificate registration form for 3 years**
- **Notify RA on revoking a user's certificate**

LRA Operations and Training

- **LRA Operator Requirements**
  - **ADP-2 level access for security**
  - **Experience w/ Windows NT and web browsers**

- **Current training for DTS DTR-6 LRA's**
  - **One-day classroom (SAIC, Columbia, MD)**
  - **DISA funds LRA training (FY99)**
  - **Organizations fund LRA travel**

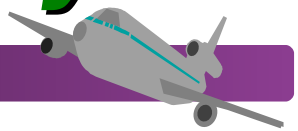
LRA Workstations



- **Hardware - Pentium PC**
  - **Litronics smartcard reader**
  - **Dedicated printer**
- **Software**
  - **Netscape Communicator 4.06 ***
  - **Windows NT 4.0**
- **NIPRNet Connection**

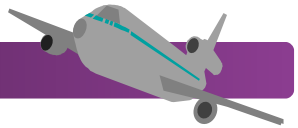
* **Available from DISA:**
http://www.disa.mil/enterprise_license/

User Registration Priority



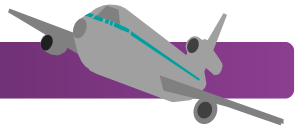
- Local Registration Authority (LRA)
- Defense Travel Administration (DTA)
- Authorizing Officials (AO)
- Frequent Travelers (once a month)
- Regular Travelers (once a quarter)
- Other Travelers

User Responsibilities



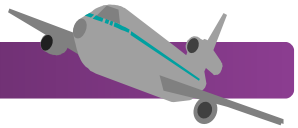
- **Keep one-time password safe until registration.**
- **Register on-line via Netscape browser to create digital signature certificate (diskette).**
- **KEEP YOUR DISKETTE SAFE!!**
  - **Unclassified; Treat as a credit or bank card.**
  - **Remember your Password (PIN)**
- **Store only digital signature information on your diskette.**
- **Use diskette as directed when requested to sign travel document or access system.**

The Way Ahead

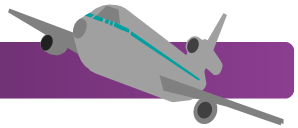


- **LRA Training for DTR-6**
  - **22-26 Feb 99 Columbia, MD**
  - **22-26 Mar 99 Ft. Campbell, KY**
  - **Jun/Jul 99 Columbia, MD**
- **Support Computer Based Training (CBT)**
- **DTS Pre-Deployment Coordination Support**
  - **LRA Training D-60 - 75**
  - **LRA Terminal Operations D - 60**
  - **DTS Deployment D +1**

System Administration



- **Local Area Network (LAN) personnel**
  - **DTS Hardware / Software Summary (Handout)**
- **Certification Process**
  - **Defense Information Technology Security Certification & Accreditation Program (DITSCAP**
- **Comprehensive Acceptance Test Program**
- **DTS Modeling and Simulation**
  - **Workload information for site network planning**



Questions